10. Schematic Diagrams

10-1 DC/DC Converter (Main) ---------- 10-2
10-2 System Control/Servo (Main) ---------- 10-3
10-3 Video (Normal) (Main) ---------- 10-4
10-4 Video (Hi-8) (Main) ---------- 10-5
10-5 Audio (Mono) (Main) ---------- 10-6
10-6 Audio (Stereo) (Main) ---------- 10-7
10-7 Camera (Main) ---------- 10-8
10-8 Rear ---------- 10-9
10-9 CCD ---------- 10-10
10-10 CVF ---------- 10-12
10-11 EVF ---------- 10-12
10-12 Front with EIS ---------- 10-13
10-13 Front without EIS (Mono) ---------- 10-14
10-14 Front without EIS (Stereo) ---------- 10-15
10-15 Function ---------- 10-16

Note

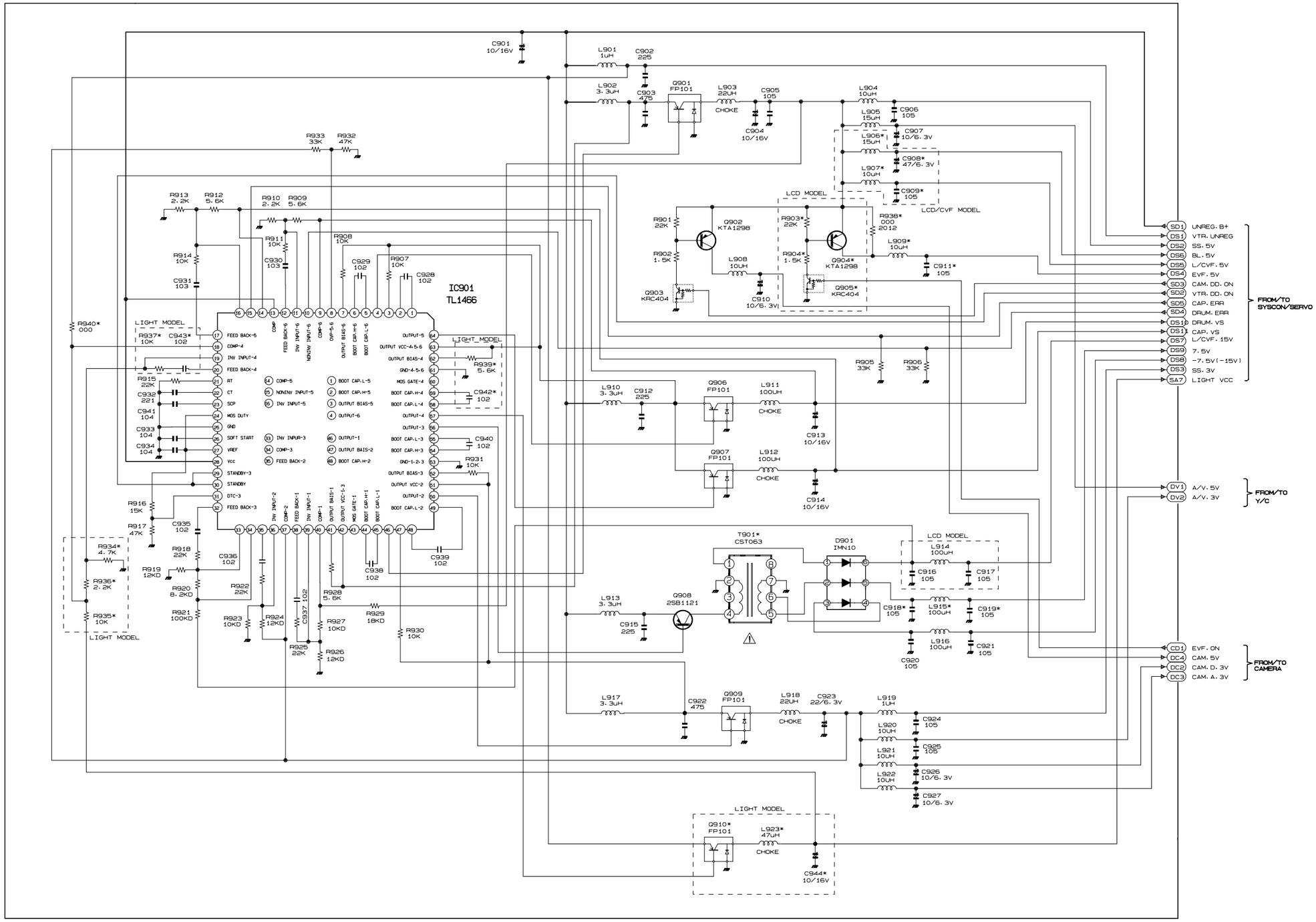
For schematic Diagram
- Resistors are in ohms, 1/8W unless otherwise noted.
- Circled numbers refer to waveforms.

Special note :
Most semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the “electrostatically sensitive (ES) devices” section of this service manual.

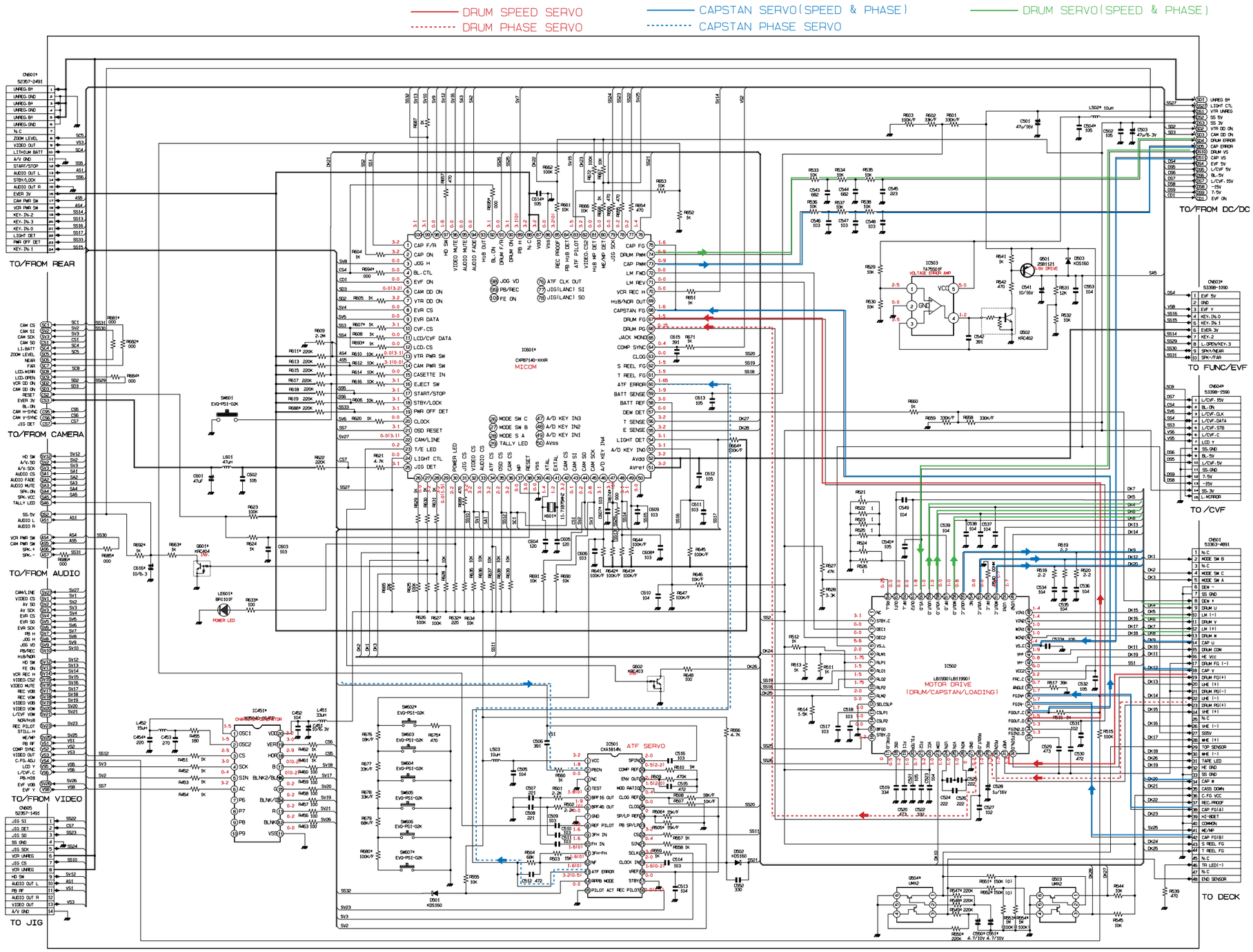
Note :
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list (may be slightly different or amended since this drawing was prepared).

Important safety notices :
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components. Use only the same type.

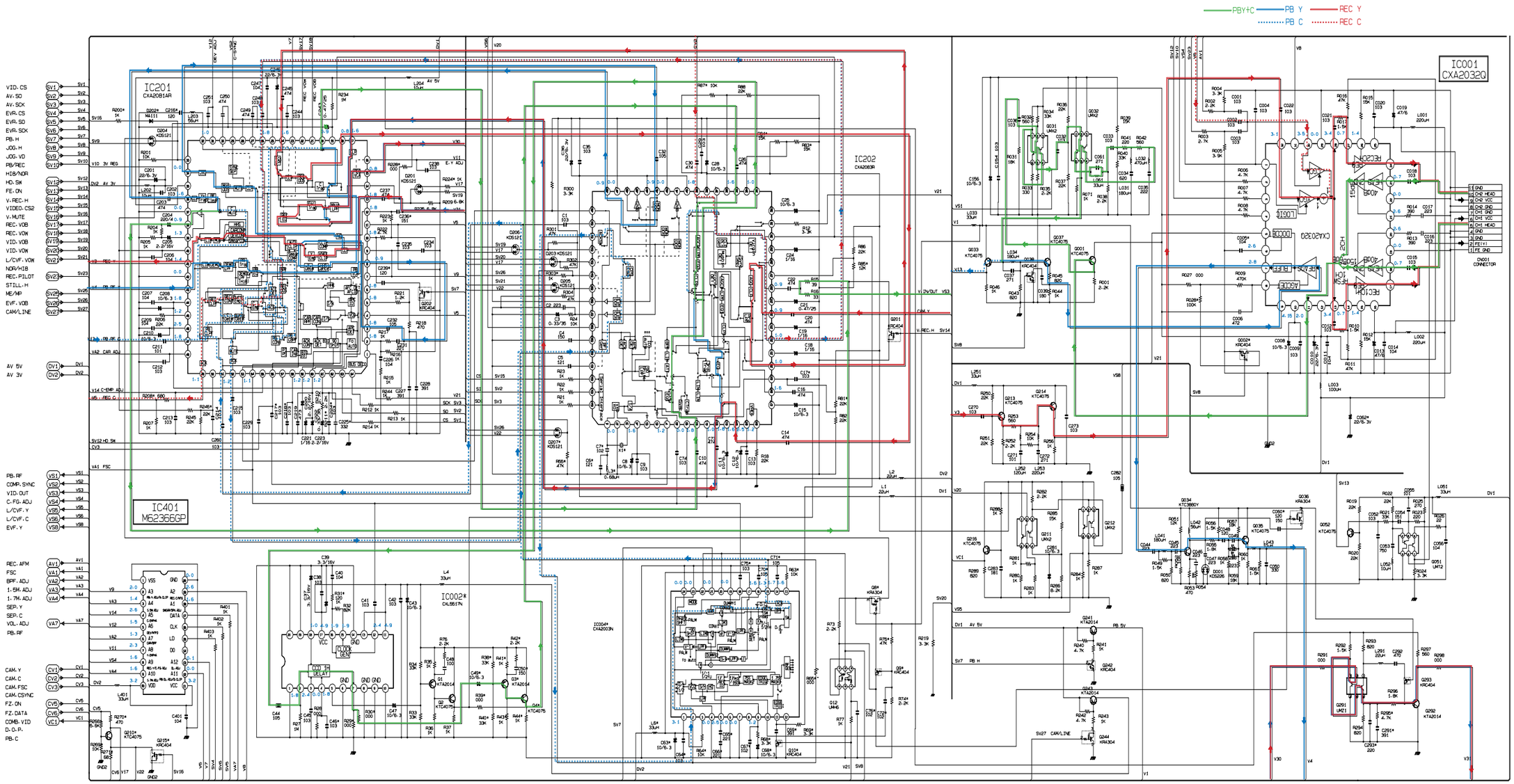
10-1 DC/DC Converter (Main)



10-2 System Control/Servo (Main)

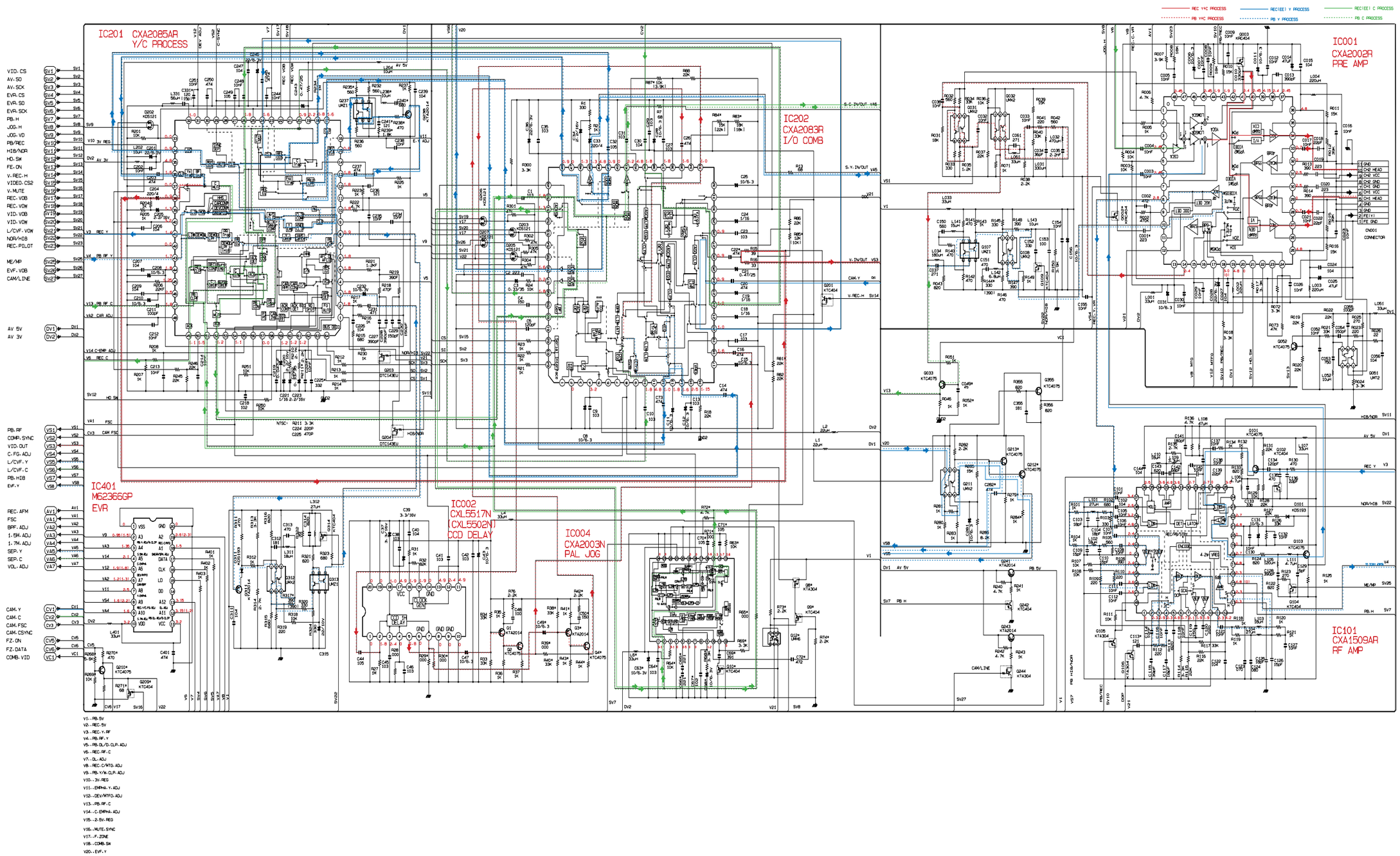


10-3 Video (Normal) (Main)

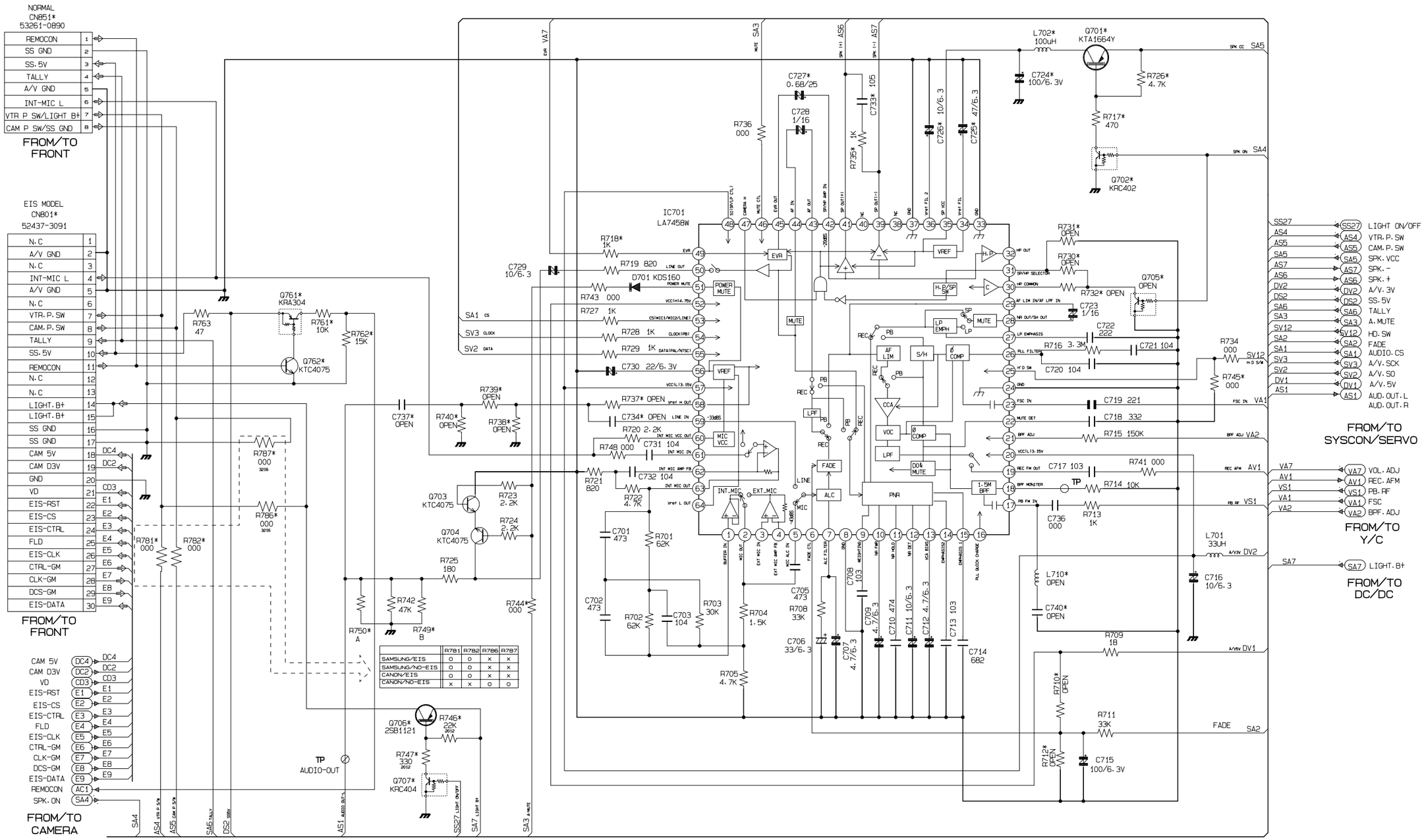


V1. - PB. 5V
V2. - REC. 5V
V3. - REC. Y. RF
V4. - PB. RF. Y
V5. - PB. CLP/D. CLP. ADJ
V6. - REC. RF. C
V7. - DL. ADJ
V8. - REC. C/MTG. ADJ
V9. - PB. Y/W. CLP. ADJ
V10. - 3V. REG
V11. - EMPHA. Y. ADJ
V12. - DEV/MTFD. ADJ
V13. - PB. RF. C
V14. - C. EMPHA. ADJ
V15. - 2. 5V. REG
V16. - MUTE. SYNC
V17. - F. ZONE
V18. - COMB. SW

10-4 Video (Hi-8) (Main)

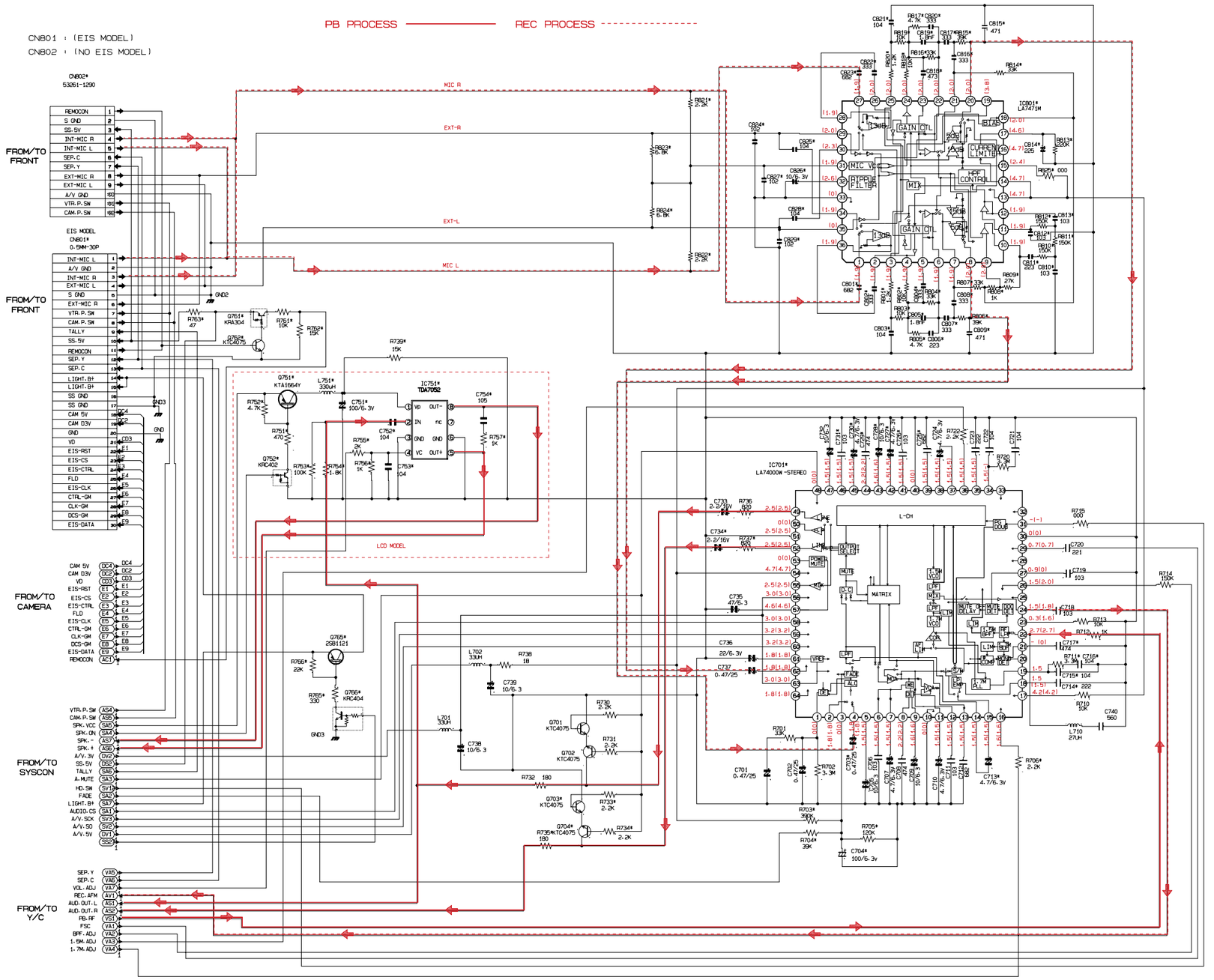


10-5 Audio (Mono) (Main)

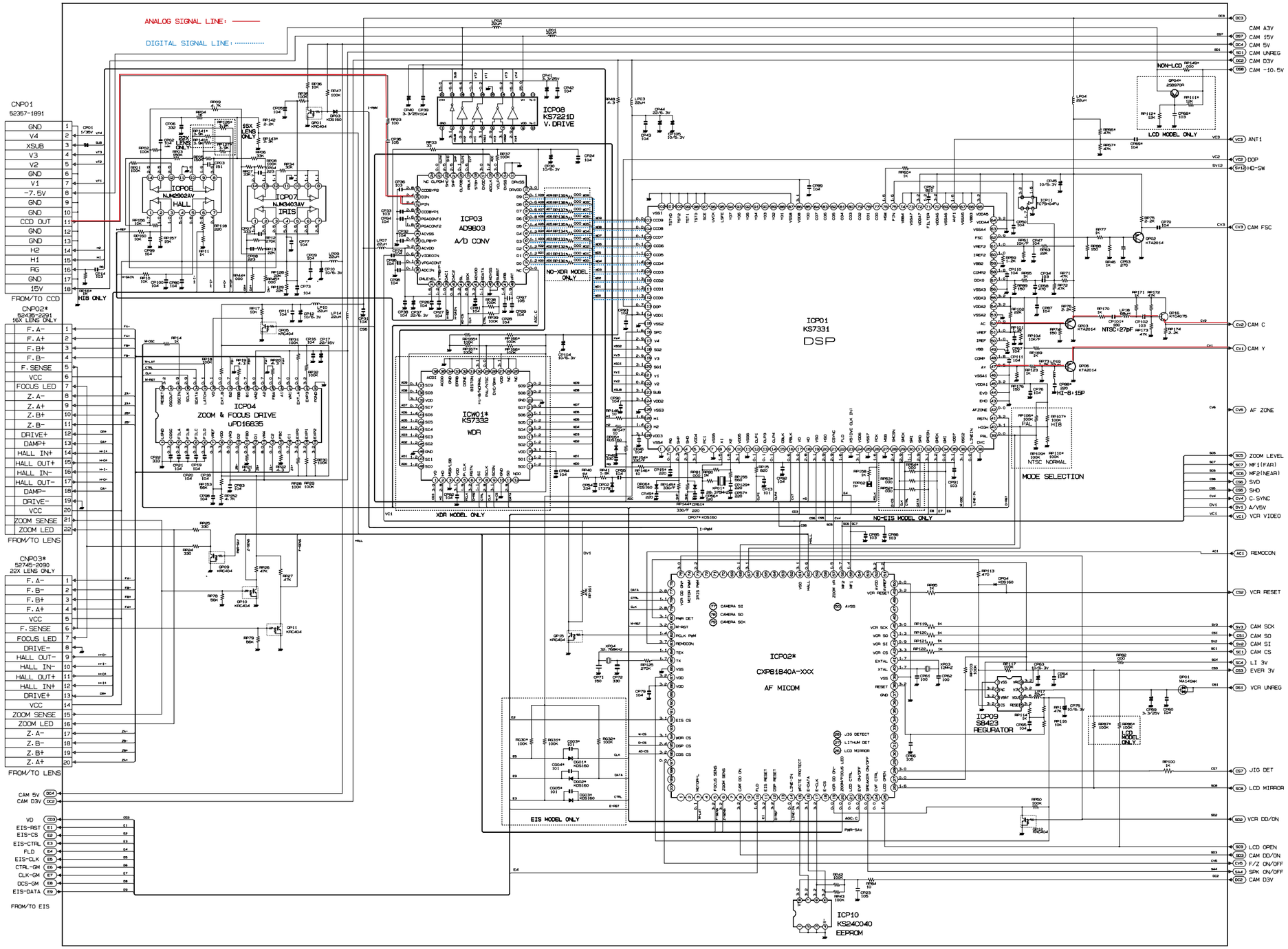


10. Schematic Diagrams 3/27/95 10:04 AM Page 7

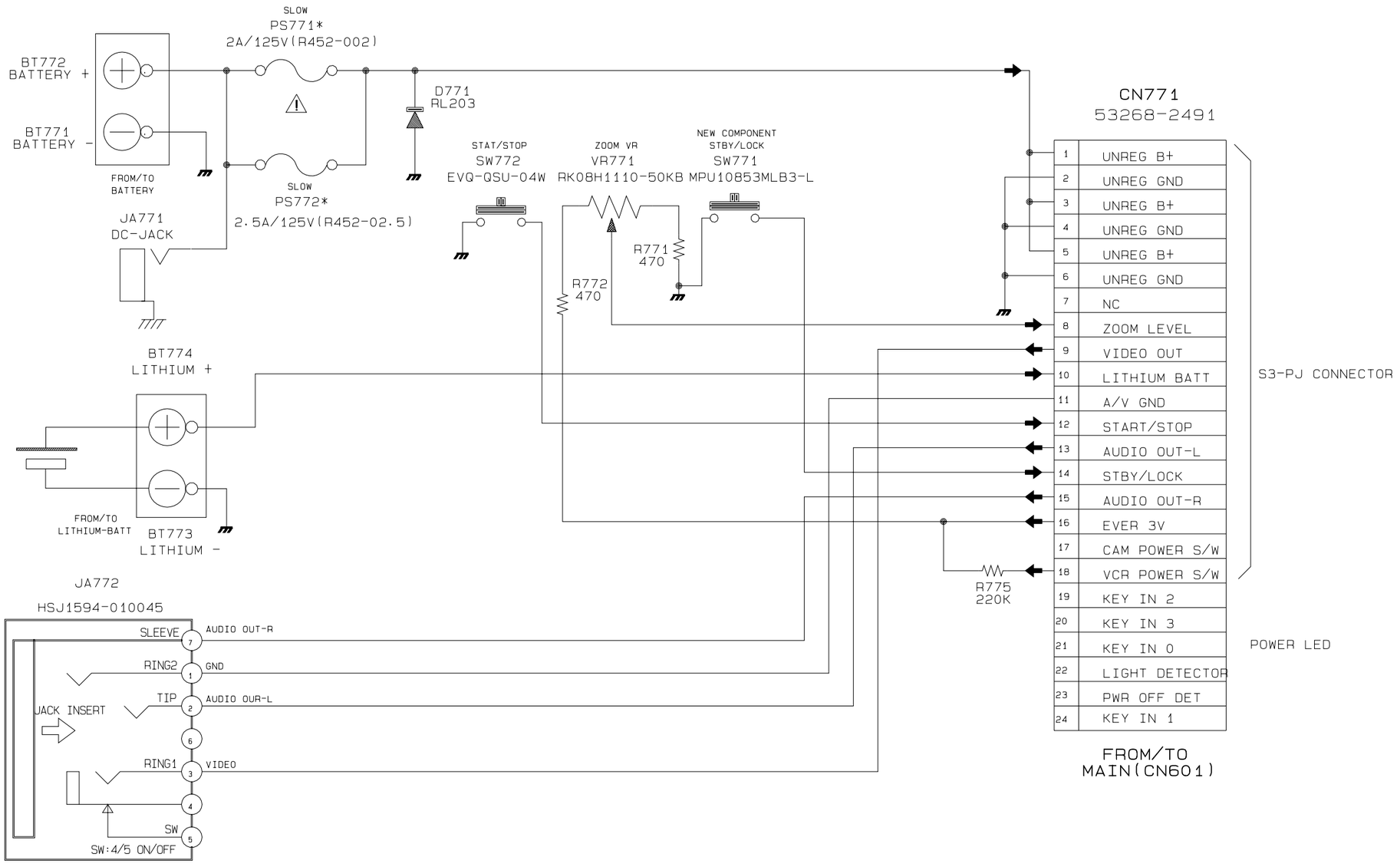
10-6 Audio (Stereo) (Main)



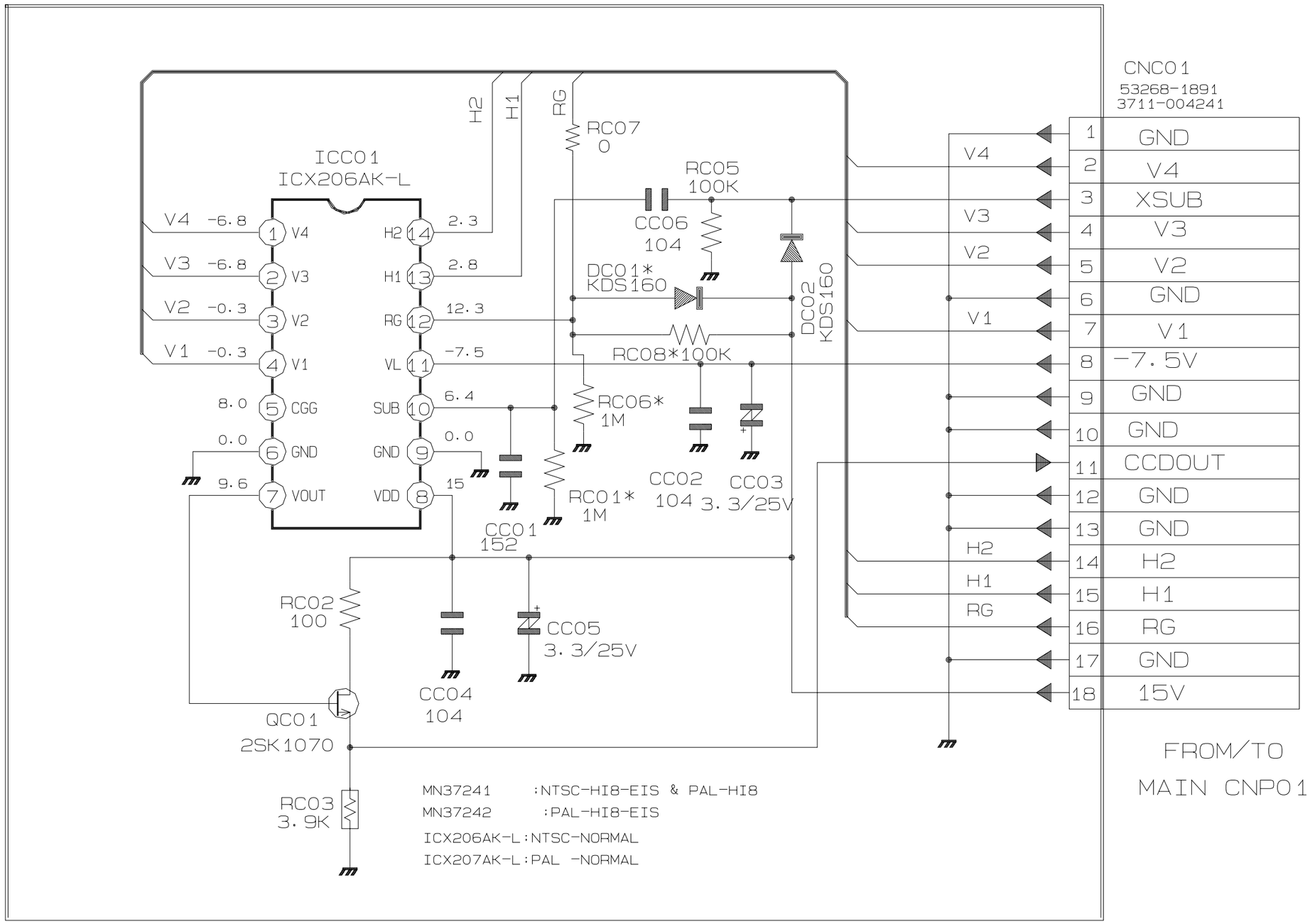
10-7 Camera (Main)



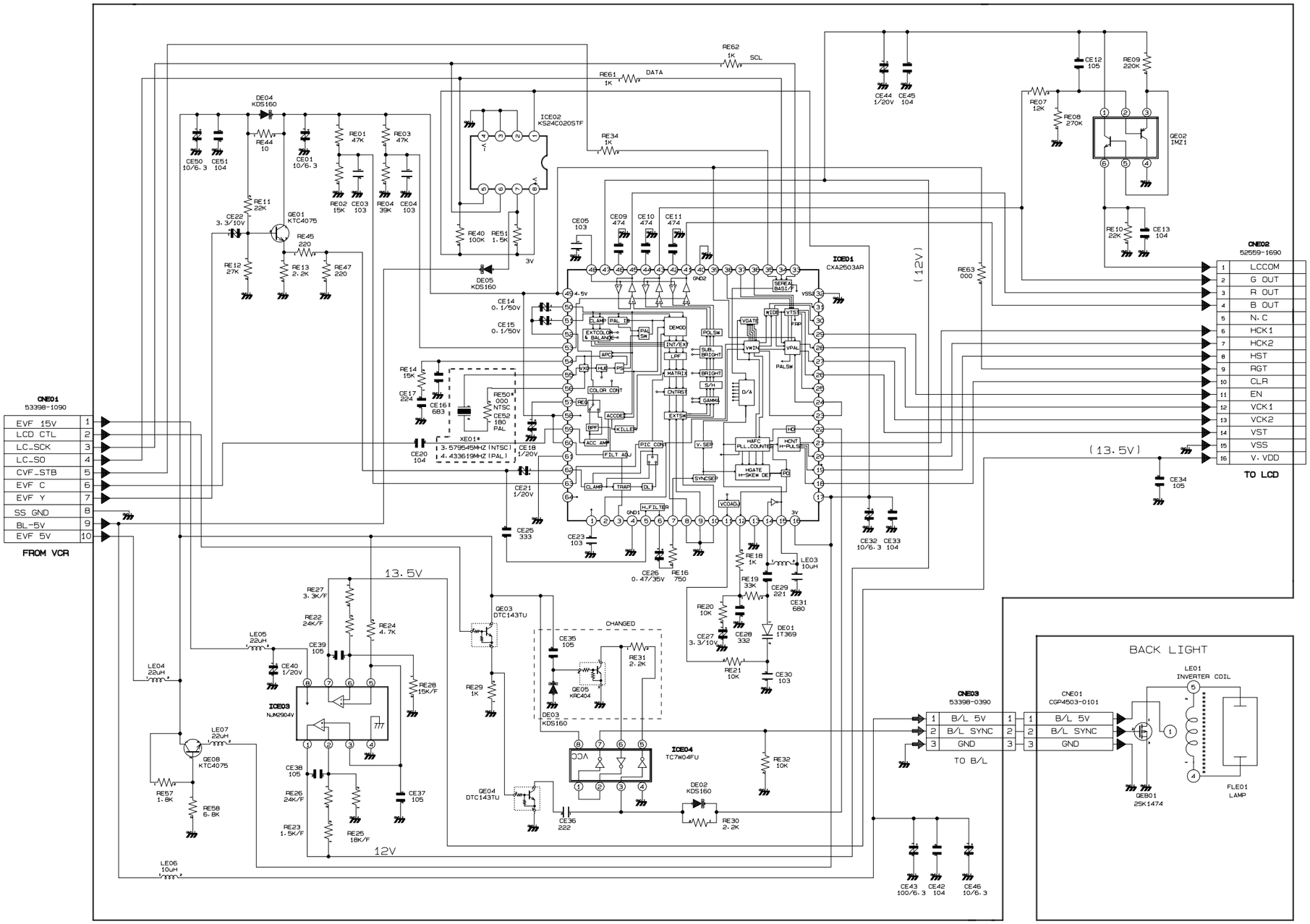
10-8 Rear


SLOW
PS771*
2A/125V(R452-002)
BT772
BATTERY +
BT771
BATTERY -
FROM/TO
BATTERY
D771
RL203
STAT/STOP
SW772
EVQ-QSU-04W
ZOOM VR
VR771
RK08H1110-50KB
NEW COMPONENT
STBY/LOCK
SW771
MPU10853MLB3-L
SLOW
PS772*
2.5A/125V(R452-02.5)
JA771
DC-JACK
R771
470
R772
470
BT774
LITHIUM +
FROM/TO
LITHIUM-BATT
BT773
LITHIUM -
JA772
HSJ1594-010045
SLEEVE
RING2
TIP
JACK INSERT
RING1
SW
SW:4/5 ON/OFF
AUDIO OUT-R
GND
AUDIO OUR-L
VIDEO
R775
220K
CN771
53268-2491
1 UNREG B+
2 UNREG GND
3 UNREG B+
4 UNREG GND
5 UNREG B+
6 UNREG GND
7 NC
8 ZOOM LEVEL
9 VIDEO OUT
10 LITHIUM BATT
11 A/V GND
12 START/STOP
13 AUDIO OUT-L
14 STBY/LOCK
15 AUDIO OUT-R
16 EVER 3V
17 CAM POWER S/W
18 VCR POWER S/W
19 KEY IN 2
20 KEY IN 3
21 KEY IN 0
22 LIGHT DETECTOR
23 PWR OFF DET
24 KEY IN 1
S3-PJ CONNECTOR
POWER LED
FROM/TO
MAIN(CN601)

10-9 CCD

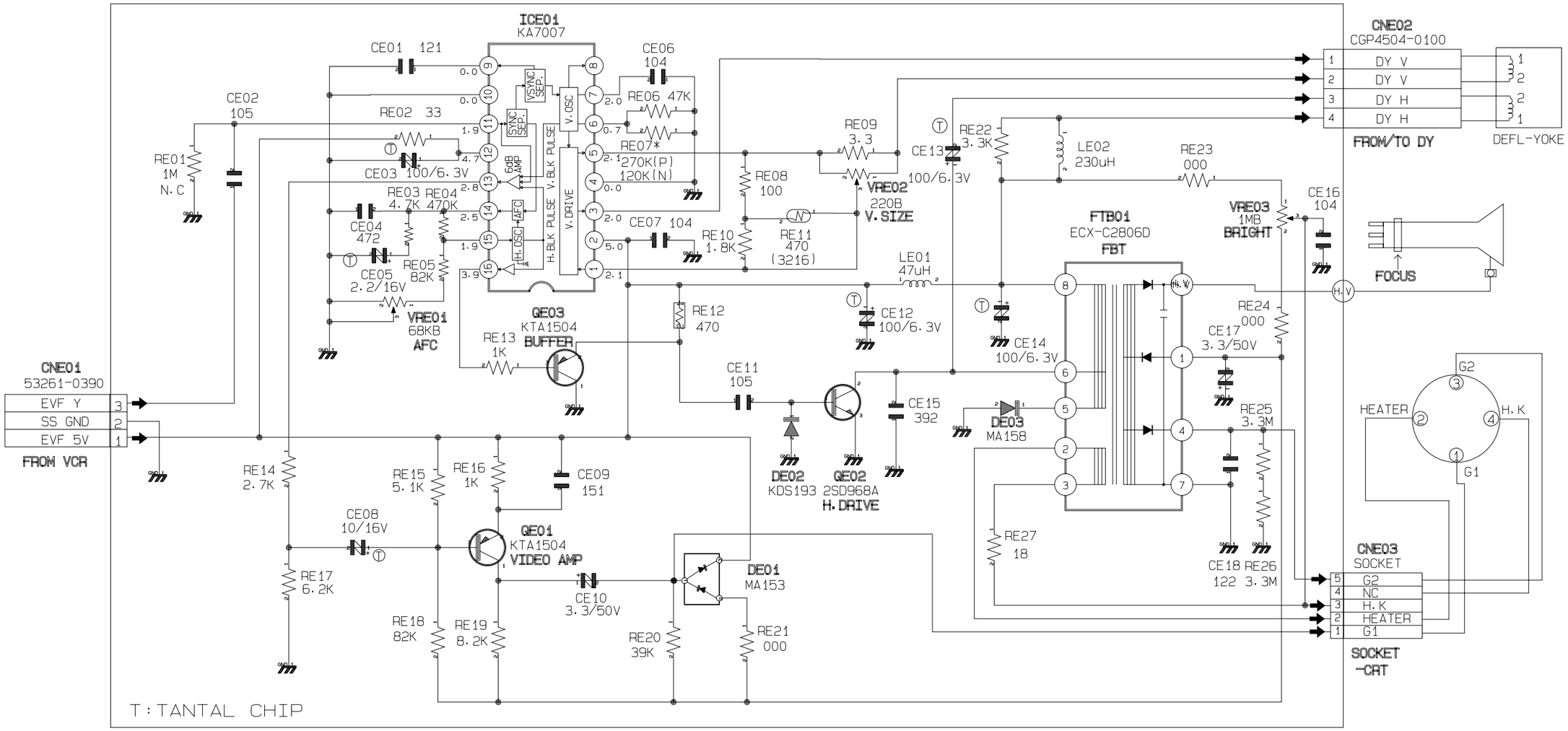

ICC01
ICX206AK-L
V4 -6.8 1 V4
V3 -6.8 2 V3
V2 -0.3 3 V2
V1 -0.3 4 V1
8.0 5 CGG
0.0 6 GND
9.6 7 VOUT
H2 14 2.3
H1 13 2.8
RG 12 12.3
VL 11 -7.5
SUB 10 6.4
GND 9 0.0
VDD 8 15
RC07 0
RC05 100K
CC06 104
DC01* KDS160
DC02 KDS160
RC08*100K
RC06* 1M
RC01* 1M
CC01 152
CC02 104
CC03 3.3/25V
RC02 100
CC04 104
CC05 3.3/25V
QC01 2SK1070
RC03 3.9K
MN37241 :NTSC-HI8-EIS & PAL-HI8
MN37242 :PAL-HI8-EIS
ICX206AK-L:NTSC-NORMAL
ICX207AK-L:PAL -NORMAL
CNC01
53268-1891
3711-004241
1 GND
2 V4
3 XSUB
4 V3
5 V2
6 GND
7 V1
8 -7.5V
9 GND
10 GND
11 CCDOUT
12 GND
13 GND
14 H2
15 H1
16 RG
17 GND
18 15V
FROM/TO
MAIN CNP01

10-10 CVF

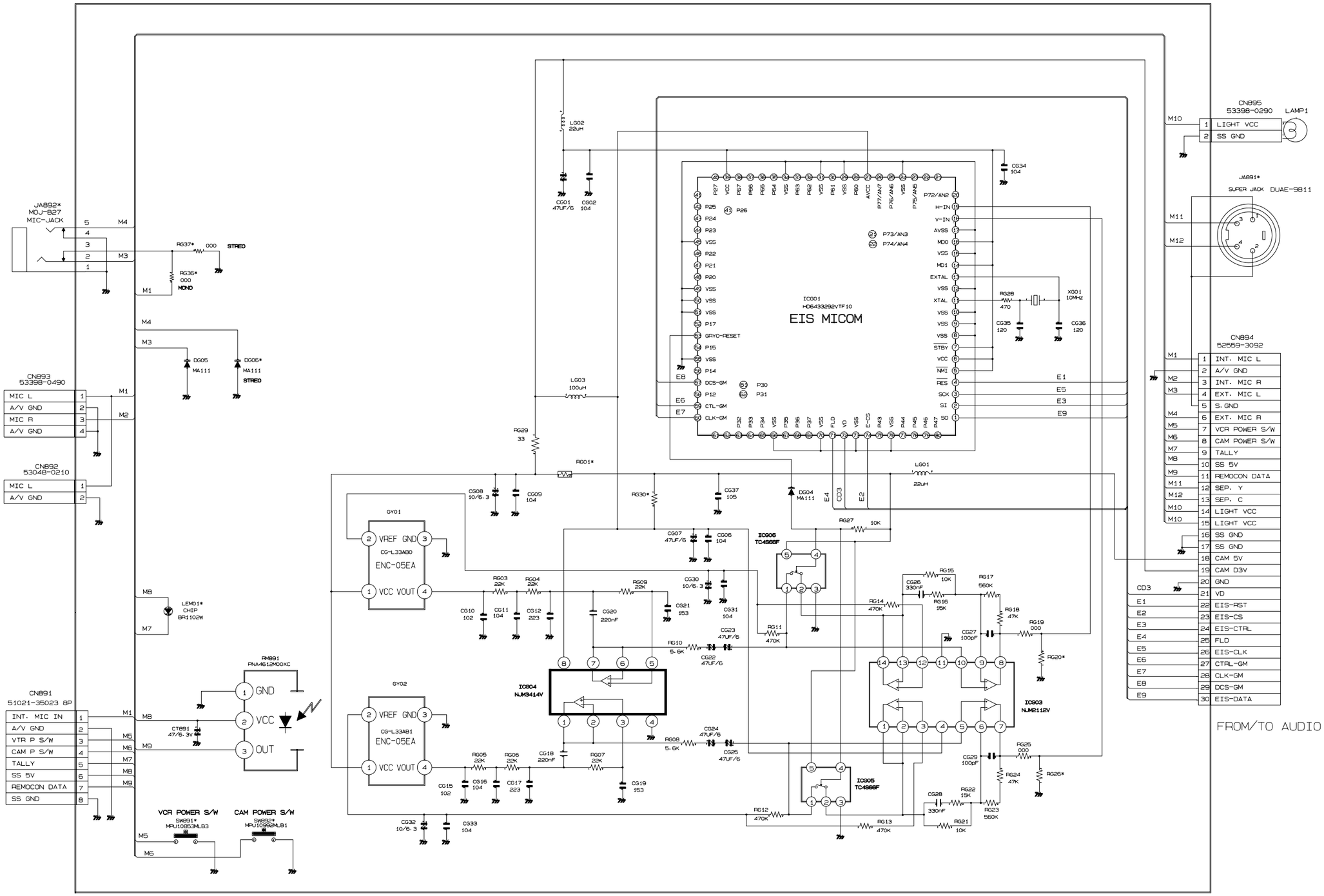

CNE01
53398-1090
EVF 15V
LCD CTL
LC_SCK
LC_SO
CVF_STB
EVF C
EVF Y
SS GND
BL-5V
EVF 5V
FROM VCR
ICE01
CXA2503AR
ICE02
KS24C020STF
ICE03
NJM2904V
ICE04
TC7W04FU
CNE02
52559-1690
LCCOM
G OUT
R OUT
B OUT
N.C
HCK1
HCK2
HST
RGT
CLR
EN
VCK1
VCK2
VST
VSS
V.VDD
TO LCD
CNE03
53398-0390
B/L 5V
B/L SYNC
GND
TO B/L
CNE01
CGP4503-0101
BACK LIGHT
LE01
INVERTER COIL
FLE01
LAMP
QE801
2SK1474
(12V)
(13.5V)
13.5V
12V
3V
4.5V
CHANGED
3.579545MHZ (NTSC)
4.433619MHZ (PAL)

10. Schematic Diagrams 3/27/95 10:04 AM Page 12

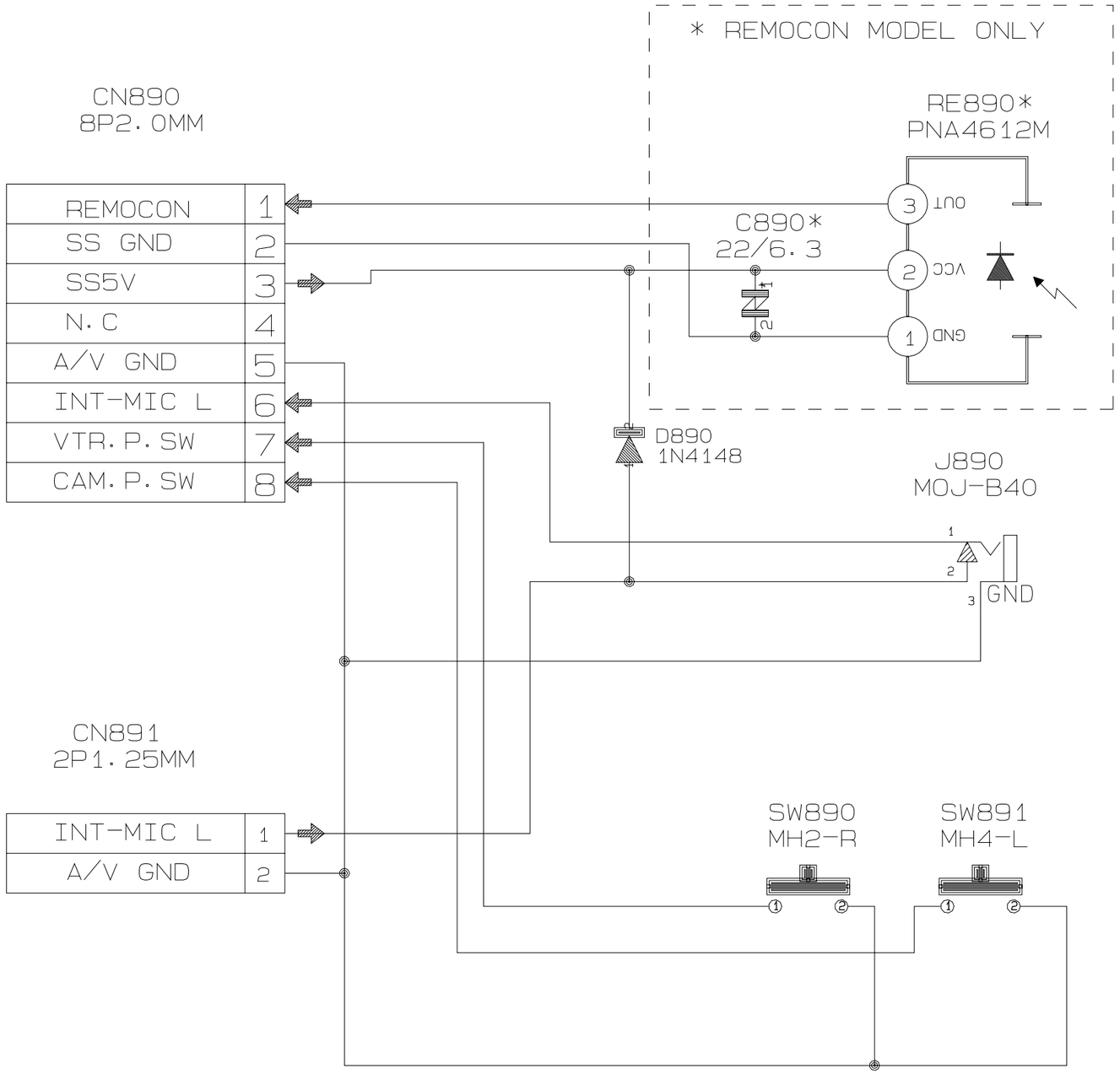
10-11 EVF



10-12 Front with EIS

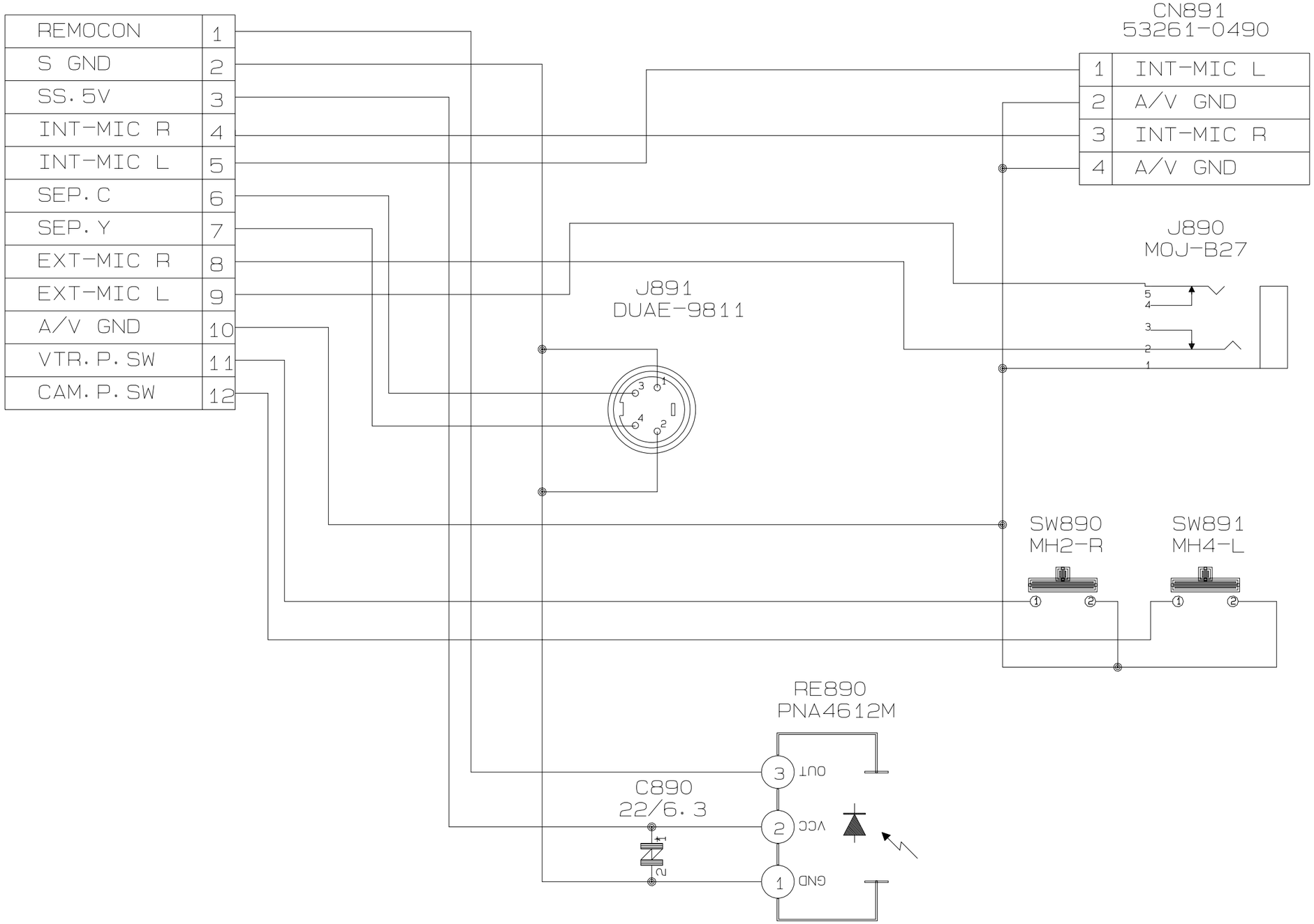
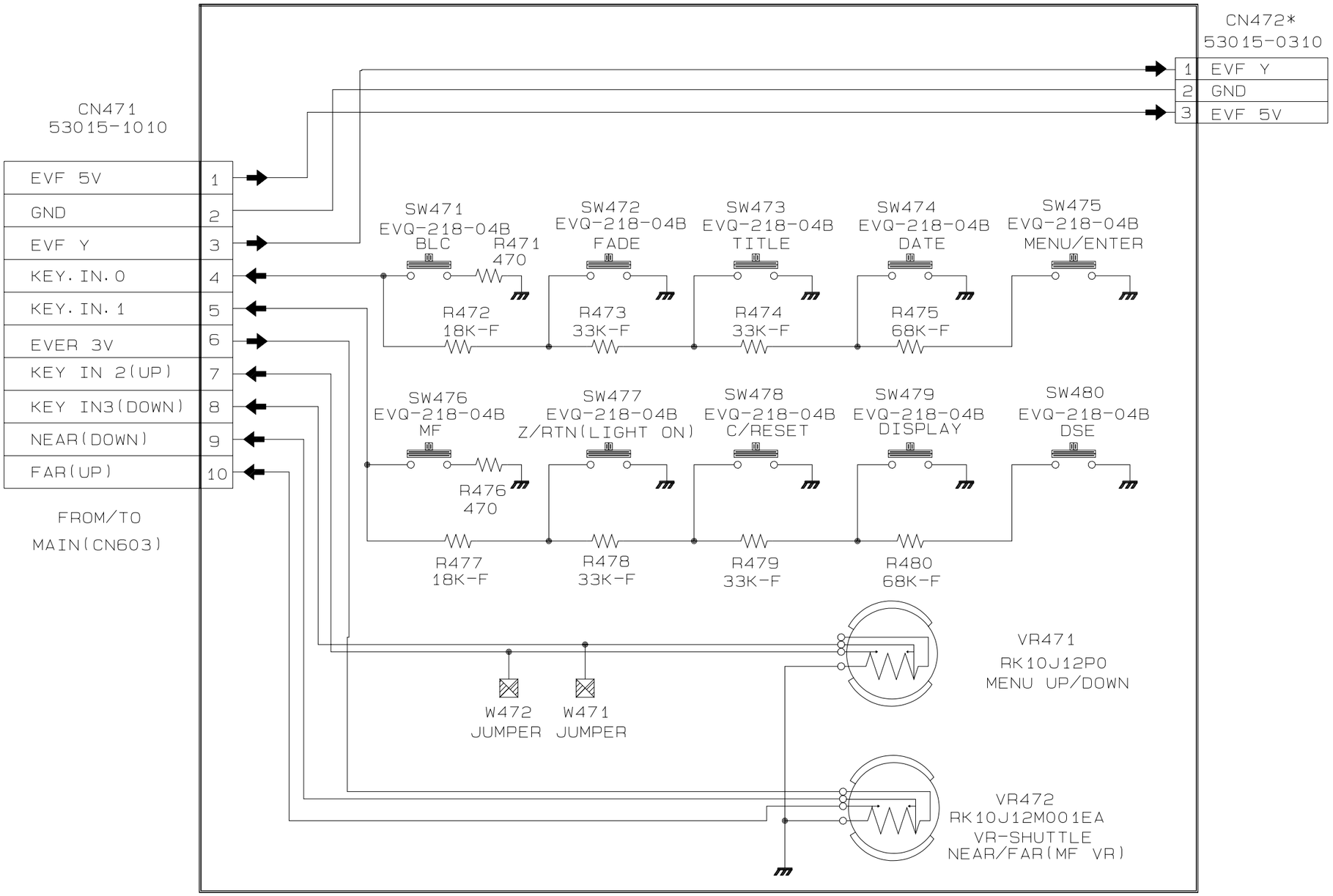


10-13 Front without EIS (Mono)



10. Schematic Diagrams 3/27/95 10:04 AM Page 15

10-14 Front without EIS (Stereo)



10-15 FUNCTION